

SECRET**PRIORITY**

11 DEC 69 14 57Z

09T 68940

P 111435Z DEC 69
 FM NPIC WASHDC
 TO RHCOAAA/SAC OFFUTT AFB OMAHA NEB
 RHCOAAA/544TH ARTW OFFUTT AFB OMAHA NEB
 RUCILBA/100TH SRW OL 19 MCCOY AFB FLA
 RUWMDA/100TH SRW DAVIS MONTHAN AFB ARIZ
 RUWMDA/12 SAD DAVIS MONTHAN AFB ARIZ
 RUEBJRA/NAVRECONTECHSUPPCEN SUITLAND MD
 RUEAIIA/CIA WASH DC
 RUCRJCS/DIA
 RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF
 RUEFHQA/HQS USAF
 BT

S E C R E T CITE NPIC 7580.

SAC FOR DIRI, DOSR, DISD, DM4C, DPLC; 100 SRW DAVIS MONTHAN AFB FOR REPRO
 DO, DCOI, DCM, AEMS; 12 SAD FOR MD; DIA FOR DIAXX-1; HQ USAF FOR
 AFIGOS, AFXOTR; 15TH AF FOR DI, DO, DM4C.

SUBJECT: EVALUATION OF OLD HEAD MISSION G-107, FLOWN 2 DECEMBER
 1969

1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY OF THIS MISSION IS FAIR WITH A FEW INSTANCES OF GOOD IMAGERY. THE GOOD IMAGERY IS SLIGHTLY POORER IN QUALITY THAN THAT OBTAINED ON MISSIONS G-103 AND G-104, BUT IS GENERALLY EQUIVALENT TO THAT FROM MISSION G-105. THE MAJOR DEGRADING FACTOR APPEARS TO BE IMAGE MOTION RESULTING FROM VEHICLE VIBRATION. INDISTINCT EDGES AND A GENERAL "SOFT" IMAGE APPEARANCE ARE NOTICEABLE AT MAGNIFICATIONS OF 25X AND ABOVE. ISOLATED INSTANCES OF DIRECTIONAL IMAGE SMEAR WERE ALSO NOTED. THIS SMEAR IS PROBABLY THE RESULT OF VEHICLE ATTITUDE PERTURBATION DURING EXPOSURE. THE GENERAL QUALITY OF THE AFT LOOKING IMAGERY IS SLIGHTLY POORER THAN THAT OF THE FORWARD LOOKING IMAGERY. THERE ARE INSTANCES WHERE THE IMAGERY IS COMPARABLE; HOWEVER, THE POOREST IMAGERY OF THE MISSION WAS NOTED ON THE AFT LOOKING RECORD. THE ABOVE DEGRADATIONS DID NOT SERIOUSLY HINDER THE INTERPRETATION OF THE MISSION. THE INTERPRETATION SUITABILITY IS CONSIDERED TO BE GOOD. SOME OF THE SMALLEST OBJECTS DETECTABLE ARE: PEOPLE, RAILROAD TIES, AND WINDSHIELD BREAKS ON AUTOMOBILES.

2. MISSION DATA:

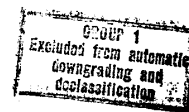
- A. MISSION G-107, 2 DECEMBER 1969
- B. I-2, 8011
- C. A/C NO: 339
- D. STEREO
- E. T/O: 1140Z, C/ON: 1358Z
- F. 3404, W-23A
- G. DUAL GAMMA VISCOUS CHEMISTRY
- H. AVG. GAMMA: 1.77

3. ORIGINAL NEGATIVES:

- A. EXPOSURE: ADEQUATE FOR INTERPRETATION PURPOSES.
- B. DENSITY AND CONTRAST: GENERALLY LOW TO MEDIUM.
- C. IMAGED DEGRADATIONS: FOG PATTERNS ASSOCIATED WITH CAMERA START UP AND SHUT DOWN ARE PRESENT ON FRAMES 1 - 3, 907 AND 908. TRANSVERSE BANDING IS PRESENT THROUGHOUT THE MISSION. A BAND OF FOG IS PRESENT 3.25 INCHES FROM THE TAKE UP END OF MOST FWD AND AFT FRAMES. THIS FOG PATTERN IS PARALLEL TO THE MINOR AXIS AND EXTENDS ACROSS THE FORMAT. IT APPEARS TO BE THE RESULT OF LIGHT LEAKING THROUGH THE SLIT WHILE THE FILM IS STOPPED DURING THE DATA CHAMBER EXPOSURE. ASSOCIATED WITH THIS LIGHT LEAK

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SECRET

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IN SOME INSTANCES, IS A SUBTLE FOGGING OF THE DATA CHAMBER AREA. BOTH THESE ANOMALIES ARE PROBABLY CAUSED BY IMPROPER CAPPING OF THE SLIT. A LIGHT LEAK INDUCED V-SHAPED FOG PATTERN IS PRESENT ON BOTH FWD (MORE PRONOUNCED) AND AFT EXPOSURES. THE PATTERN IS LOCATED 15 INCHES FROM THE TAKE UP END AND BEGINS 0.5 INCH FROM THE NON TITLED FRAME EDGE. ASSOCIATED WITH THIS PATTERS IS A SMALL RECTANGULAR FOG PATTERN, 0.5 INCH TO THE RIGHT. BOTH PATTERNS DEGRADE THE ASSOCIATED IMAGERY. AN EQUIPMENT IMAGE IS LOCATED 23.5 INCHES FROM THE SUPPLY END OF THE FWD AND AFT (MORE PRONOUNCED) EXPOSURES. THIS PATTERN HAS A FISH HOOK SHAPE WITH THE SHANK BEING APPROXIMATELY 1.0 INCH WIDE WITH INCREASING DENSITY TOWARD THE SUPPLY END. THE HOOK PORTION OF THE PATTERN DECREASES IN DENSITY TOWARD THE SUPPLY END. THE IMAGERY IN THE DENSE AREAS OF THE PATTERN IS DEGRADED. SKEW BAR ROLLER MARKS WERE NOT PRESENT ON THIS MISSION.

D. PHYSICAL DEGRADATIONS: FINE EMULSION SCRATCHING IS PRESENT THROUGHOUT THE MISSION. TWO PROCESSING SPLICES AND ONE MANUFACTURER'S SPLICE ARE PRESENT ON THIS MISSION.

E. DATA RECORDING EQUIPMENT: ALL RECORDING EQUIPMENT FUNCTIONED PROPERLY THROUGHOUT THE MISSION.

F. OTHER: THE LAST TITLED FRAME IS 908. THE LAST COUNTER NUMBER IS 913. A PLUS 5 BIAS WAS HELD THROUGHOUT THE MISSION.

4. POSITIVES: ADEQUATE FOR EXPLOITATION PURPOSES.

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END OF MESSAGE